MODEL MS2000

VEHICLE SECURITY SYSTEM

INSTALLATION MANUAL

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Before You Begin

1. Be sure to read the manual thoroughly before beginning the installation to ensure a proper understanding of the MS2000 and its functions.

2. Verify system contents:
   q Main Unit
   q Two 3-Button Remote Transmitters
   q Siren
   q Electronic Shock Sensor
   q Harnesses

   - 14-Pin Main harness
   - 2-Pin Status LED harness
   - 2-Pin Override Switch harness
   - 3-Pin Door Lock harness
   - 4-Pin Shock Sensor harness

3. Discuss the location of the status LED and the Emergency Override Switch with the vehicle's owner.

4. Discuss the optional features of the MS2000 and the features that must be programmed during installation, with the vehicle's owner.

5. Check all of the vehicle's operating systems before and after the installation.

Installation Tips

1. Use a Volt / Ohm meter to test all wires. ***Do not*** use a test light.

2. Good power and ground connections are essential for proper operation. Ground the alarm as close to the alarm main unit as possible.

3. Route all wires from the engine compartment to the interior of the vehicle through a grommet and use electrical tape and/or split loom tubing for protection.

4. When adding optional accessories such as door locks, window modules, etc., be sure to fuse each additional accessory power lead separately from the main power source. This will insure that the security system power is retained in the event that an accessory malfunctions.

5. Avoid extending the system's wires, the supplied wiring harnesses provide sufficient length to connect to the required vehicle circuits. If a wire must be extended, be sure to use the appropriate gauge wire in order to avoid a drop in current. Always use wire that is at least the same gauge as the wire you are extending.

6. ***Never*** bypass the fuses included in the MS2000 wiring harness. They are necessary safety items designed to protect both the system and the vehicle.

7. Be sure to perform a full function test of all of the systems components to verify proper operation. Also, be sure to check all of the vehicle's operating systems before and after the installation.

8. For maximum security, disguise all system wires with black electrical tape and/or split loom tubing to prevent a thief from being able to identify the system wiring.

Mounting Components

Main Unit

The main unit should be mounted in the interior of the vehicle. ***Do not*** mount the main unit in the engine compartment. For maximum security, avoid mounting the main unit where it will be easily accessible to a thief.

If you are mounting the unit under the dash board, be sure to mount the unit as high as possible and in a location where it will not interfere with the operation of the pedals.

Be sure to extend the antenna as high as possible so that optimum range can be achieved.

Before securing the unit, be sure that you have made all of the necessary switch and jumper selections and perform a thorough function test of the system.

The case of the MS2000 is designed to be mounted using screws, or secured using wire ties through the wire tie mounting tabs located on the unit.

Siren

Mount the siren away from sources of heat and face the opening downward to prevent water from collecting inside the housing. Be sure that the wires are not easily accessible from underneath the vehicle.

For maximum security, it is best to disguise all under hood system wires with factory style split loom tubing so that they cannot be easily identified by a thief.

Shock Sensor

The dual stage, electronic shock sensor, included with the system, is designed to be mounted in the interior of the vehicle using a tie wrap or double sided tape. Be sure to avoid mounting the sensor to sources of strong electrical interference such as cellular phone transceivers or the vehicle's engine computer.

Suggested mounting locations are an air conditioning duct, or a dashboard or center console support brace.

Override Switch

Mount the Override Switch in a location near the driver where it is easily accessible but not plainly visible. Plug the blue override switch connector into the blue 2-pin socket on the main unit.

Be sure that the switch cannot accidentally be pressed or damaged by movement of passengers or contents within the vehicle.

LED Status Indicator

Mount the status LED so that it is visible from both sides of the vehicle. Plug the red LED connector into red 2-pin socket on the Main Unit.

Wiring Description

14-Pin Main Harness

Pin 1 - Red: Main Power (+12v) input [15A fuse]
Connect to constant +12v. A clean source of power is essential. This connection can be made at either the battery or at the constant power supply wire to the ignition switch.

If this wire needs to be lengthened, use the appropriate wire gauge to avoid a drop in current and be sure to install a fuse near the connection. ***Do not*** remove or bypass the fuse holder included on the wire harness.

Pin 2 - Brown: Siren (+12v) output.
Connect to the Red siren wire. Connect the Black siren wire to chassis ground.

Pin 3 - White: Parking Light (+/-) output.
Connect to the parking light circuit. For vehicles that have independent left and right parking light circuits, the parking light wires must be connected using diodes to keep the circuits separate.

Pin 4 - * Blank *

Pin 5 - Blue/White: Passenger/Priority Unlock (-) output.
Provides a negative output (-) while the alarm is disarmed to unlock the vehicle's passenger door. Connect to an optional relay. (See *Door Lock Diagrams* - Page 13)

Pin 6 - Brown/White: Horn Honk (-) output.
Connect to a relay to honk the vehicle horn.

Pin 7 - Orange: Optional Circuit Defeat (-) output.
Provides a negative output to disable the vehicle's ignition or fuel pump circuits. Connect to an optional relay as shown.

Pin 8 - Blue: Hood/Trunk Trigger (-) input.
Connect to a negative output from the hood and trunk pin switches.

Pin 9 - Black/White: Dome Light (-) output.
Illuminated Entry/Exit output. Provides a negative (-) output to turn on the vehicle's dome light when the system is disarmed. Normally, this wire can be connected to the door switch circuit. (See *Dome Light Diagrams* - Page 15)

Pin 10 - Yellow/White: Auxiliary (-) output.
Provides a negative (-) momentary output.

Pin 11 - Yellow: Ignition input (+12v) input.
Connect to a source that maintains +12v when the ignition key is in both the "on" and "start" positions.

Pin 12 - Black: Ground.
Connect to a solid chassis ground. Be sure to use a ring connector of proper size. Scrape away the paint at the grounding point.

Pin 13 - Violet: Door Trigger (+12v) input
Connect to positive door switch circuit. This circuit, commonly found in Ford vehicles, will show (+12v) when the door is open.

Pin 14 - Green: Door Trigger (-) input
Connect to negative door switch circuit. This circuit will show (-) when the door is open.

3-Pin Door Lock Harness (See *Door Lock Diagrams* - Page 14)

Pin 1 - Green: (-) output

Pin 2 - Red: Not used

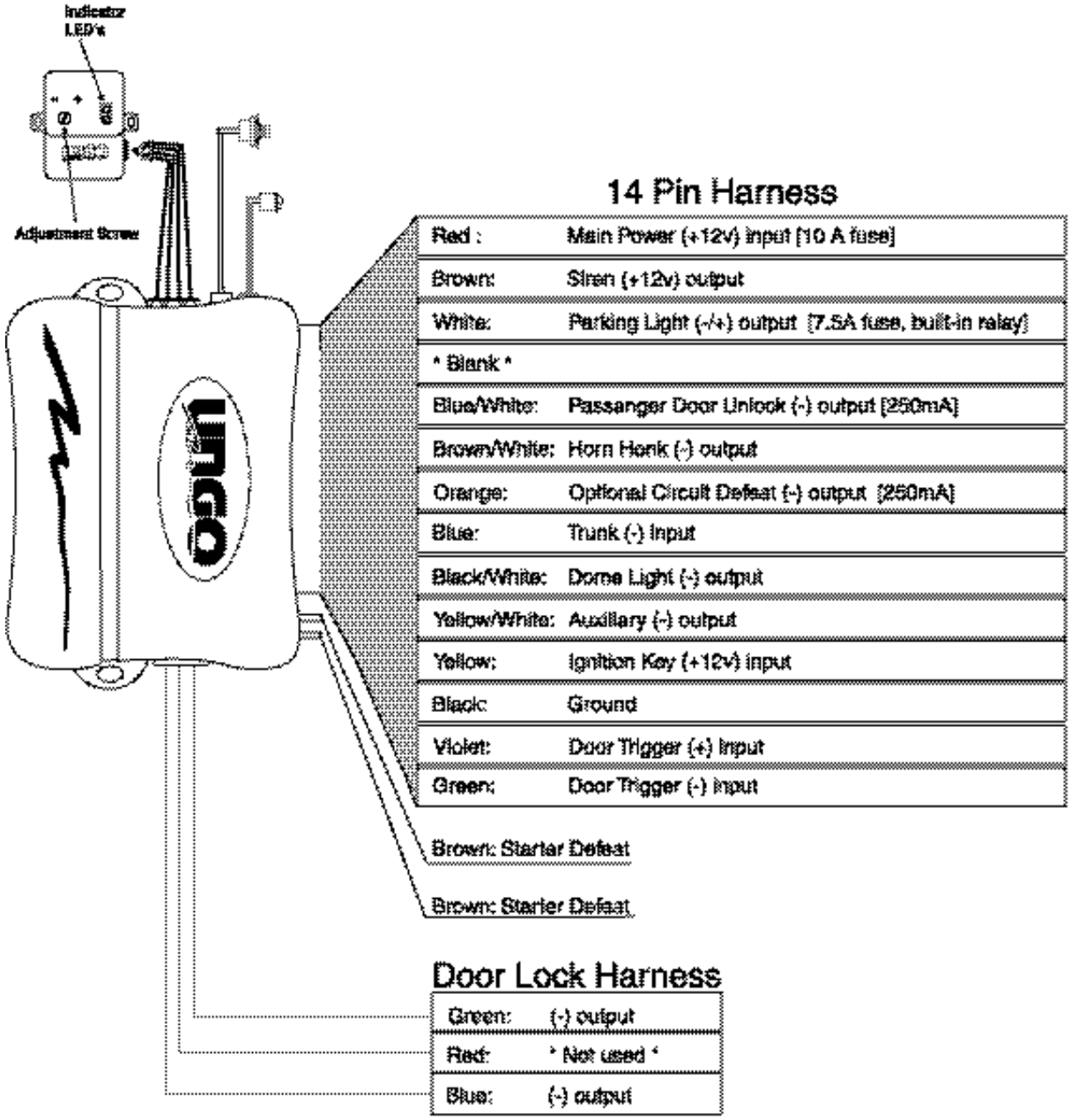
Pin 3 - Blue: (-) output

On-Board Starter Defeat Wiring (See *Starter Defeat Diagram* - Page 12)

Pin 1 - Brown: Starter Defeat Input
Cut the vehicle's starter wire at the ignition column and connect the key side to the brown wire.

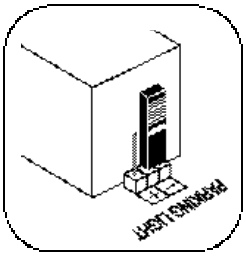
Pin 2 - Brown: Starter Defeat Output
Cut the vehicle's starter wire at the ignition column and connect the starter side to the brown wire.

Wiring Diagram

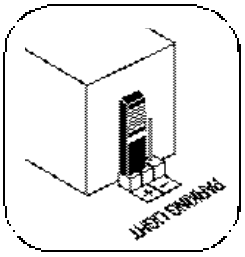


Parking Light Jumper Settings

The Parking Light Polarity Jumper selects the polarity (+/-) for the output of the on-board Parking Light relay.



Negative

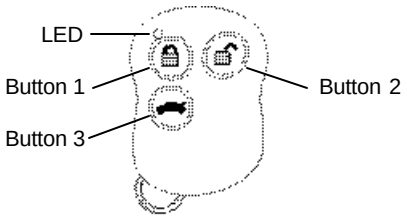


Positive

Pin 1 + Pin 2 = negative
Pin 2 + Pin 3 = positive (default)

Basic Operation

Remote Transmitter Layout:



Each system comes with 2 Remote Transmitters, pre-programmed to operate in the **Standard Mode** and will Arm and Disarm the system *with* chirp confirmation.

Button 1 Arms the system. This Button also locks the doors when the system is in Valet Mode.

Button 2 Disarms the system. This Button also unlocks the doors when the system is in Valet Mode.

Button 3 Activates the the systems trunk release feature. Silently arms/disarms the system.

Optional Driver Door Priority Feature*

This configuration adds the security of unlocking only the driver's door when the system is Disarmed. Pressing the Disarm button again will unlock all remaining doors.

Button 1 Arms the system. This Button also locks the doors when the system is in Valet Mode.

Button 2 Disarms the system and unlocks the driver's door. This Button also unlocks the doors when the system is in Valet Mode.

If the system is Armed, pressing Button 2 will Disarm the system and unlock the driver's door only.

If the system is Disarmed, pressing Button 2 will unlock all remaining doors.

If the system is in Valet and the doors are locked, pressing Button 2 will unlock the driver's door. Pressing Button 2 again will unlock all remaining doors.

*Extra parts and/or labor may be required to properly utilize this feature.

Remote Arming

When Armed, the system monitors and protects 4 independent areas or ***zones***, including the doors, hood/trunk, shock sensor and optional sensor.

To Arm the System:

1. Turn off the ignition.
2. Press Button 1.
   - The siren/horn will chirp once.*
   - The doors will lock.
   - The parking lights will flash once.
   - The LED will turn on red, indicating the doors, hood and trunk inputs are activated.

   * The siren chirp(s) during Arming will alert you the condition of the system and vehicle when the system is armed.

   1 chirp = normal arming
   1 + 4 chirps = door, hood, or trunk open

   During Arming, if the system detects a bad sensor or an open zone, the system will ignore that input, but keep all other areas protected.
3. After 10 seconds:
   - The LED will begin blinking, indicating that the sensor inputs are activated.

While the system is **Armed**, the system will trigger if:

- The doors are opened.

- The shock sensor detects an impact to the vehicle.
- The hood or trunk is opened.
- A connected optional sensor is disturbed.

When triggered, the siren will sound, and the parking lights will flash and the horn will honk (if connected). If the system is triggered by the doors, hood, or trunk, the system will sound alarm for 40 seconds. If triggered by a sensor, the system will sound alarm for 20 seconds.

If the same input triggers the system 3 times during a single arming cycle, the system will bypass that input keeping the other zones protected until the next time the system is armed.

If the shock sensor detects a light impact to the car or a connected optional sensor triggers the system's Warn Away input, the siren will sound 5 chirps to warn away the potential intruder.

Remote Sensor Bypass

In case of extreme weather conditions such as high winds, the sensors can be temporarily bypassed from the Remote Transmitter while the system is armed to prevent the system from false alarming.

To Bypass the sensors:

1. After arming the system, press Button 1 again on the Remote Transmitter within 5 seconds.
   - The siren will chirp 5 times, indicating the sensors have been bypassed.
2. The sensors will remain bypassed until the next time the system is armed.

Remote Disarming

To Disarm the System:

Press Button 2.

- The siren/horn will chirp twice.*
- The doors will unlock.
- The parking lights will flash twice.**
- The LED will turn off.

* The siren chirps and light flashes during disarming will alert you if the system had been triggered while armed.

2 chirps / 2 flashes = normal disarming
3 chirps / 3 flashes = Tamper Alert - system was triggered

** If the Passenger Unlock Feature is installed, pressing Button 2 will unlock only the driver's door. Pressing the unlock Button 2 again unlocks all doors.

Tamper Alert

On Disarming, if the system responds with three chirps, indicating the system was triggered, the LED will flash for 60 seconds to indicate the zone that triggered the system.

LED Flashes (60 seconds):

1 flash = door
2 flashes = shock sensor
3 flashes = trunk
4 flashes = optional sensor

example: flash-flash-pause-flash-flash-pause = shock sensor

Note: Turning on the ignition will cancel Tamper Alert zone indications.

Silent Arming / Disarming

Each Remote Transmitter can be individually set to always Arm and Disarm the system with or without chirp confirmation at the time they are programmed into the system (See *Adding a New Transmitter into the System* Page 9).

To temporarily cancel the Arming and Disarming confirmation chirps, you can Arm or Disarm the system by pressing Button 3.

Note: The confirmation chirps will only be cancelled if the system status is normal. The chirp indications for Tamper Alert and the open zone warning will not be cancelled when the system is Armed or Disarmed silently.

Arming Mode Selection

Your system can be set in one of the following Arming Modes:

- Passive (automatic) Arming *with* chirp confirmation
- Active Arming (by Remote Only)
- Passive (automatic) Arming *without* chirp confirmation

To set the Arming Mode:

1. Turn the ignition on.
2. Within 4 seconds, press Button 3 to change the setting.

   one chirp = Passive Arming with chirp
   two chirps = Active Arming
   three chirps = Passive without chirp

3. Turn the ignition off to save your selection.

Passive Arming

When the Arming Mode has been set for Passive Arming, the system arms itself automatically, each time the ignition is turned off and all of the doors, hood and trunk are closed.

To start the Passive Arming Process:

1. Turn off the ignition.*
   - The status LED will begin to flash quickly.
2. Open the door and exit the vehicle.
   - Once all doors are closed and the dome light is turned off, the LED will turn off.
3. After 20 seconds,
   - The siren will chirp (if Passive Arming with chirp is selected).
   - The parking lights will flash.
   - The doors will lock.**
   - The status LED will flash red, indicating the system is armed.
4. The system is now armed.

* The ignition must have been on for at least 10 seconds before the Passive Arming sequence will begin.

** If the Passive Locking feature is selected.

To temporarily disable Passive Arming, you can turn the ignition key on then off within 10 seconds. The status LED will stop flashing, and the system will not passively arm until the next time the key is on for more than 10 seconds. This feature is useful for turning off passive arming when refueling or washing the car or if you want to sit in your car and do not want the system to arm.

Panic Mode

Allows you to instantly trigger the alarm in an emergency situation using the Remote Transmitter.

To enter Panic Mode:

1. Press and hold Button 1 for 3 seconds.
   - The siren will sound.
   - The doors will unlock.
2. Press Button 1 again to stop panic and place system into the Armed state.
3. Press Button 2 to stop panic and place system into the Disarmed state.

If Panic Mode is not stopped by the Remote, it will automatically time out after 40 seconds, and the system will return to its prior Armed/Disarmed state.

Automatic System Rearming

This feature, which can be turned on by your installer during the installation, insures the security of the system by protecting your car in case of an accidental disarm.

If your system becomes disarmed due to an accidental press of the Disarm Button, the system will automatically rearm if no other activity is detected within one minute.

One minute after Remote Disarming, the system will alert you with a series of chirps, then arm. (If the Passive Door Locking feature is selected during the installation, the system will also relock the doors.)

Any of the following will cancel Automatic System Rearming:

- Turn on the ignition.
- Open the Trunk or Hood.
- Activate Auxiliary Function 1 or 2.

Automatic System Rearming is independent of Passive Arming and only takes place if the system was Armed (actively or passively) for at least 10 seconds and then Disarmed by the Remote Transmitter.

Full Time System Diagnostics

The system continuously monitors all protected zones, even when it is not armed, and warns you if it detects a problem when you turn off the ignition.

1. Turn off the ignition.
2. If the siren chirps twice, the system has detected a problem.*
3. The status LED will flash to indicate the zone where the problem has been detected.
   1 flash = door
   3 flashes = hood / trunk
   4 flashes = optional sensor

* The system must see the zone open or active for at least 20 seconds before the zone is determined to be defective. This way, opening the car door before turning off the ignition will not cause the siren to emit the warning chirps.

Valet Mode

Allows you to temporarily disable the security system when the car is being service or turned over to a parking attendant.

To turn Valet Mode on or off:

1. Turn on the ignition.
2. Press and hold the override switch.
3. While holding the override switch, turn off the ignition.
   - The siren will chirp once to indicate you have turned Valet Mode on.
   - The siren will chirp twice to indicate you have turned Valet Mode off.
4. Release the override switch.

While in Valet Mode, the LED will light solid and you can continue to lock and unlock your doors with the Remote Transmitters, as well as operate the Auxiliary Functions.

For added protection, when the doors are locked using the Remote Transmitter, the siren will chirp twice, the system's Starter Disable circuit will activate, and the LED will emit double flashes until the system is unlocked by the Remote.

If the Remote Transmitter is lost, stolen, or becomes inoperable while the car is locked in Valet Mode, you can exit the Valet mode to deactivate the Starter Disable circuit.

Adding a New Transmitter into the System

Have all desired transmitters ready (up to 4 transmitters)

1. Turn on the ignition.
2. Press and hold the Override switch.

- The status LED will turn on red.
- The siren will chirp 5 times.

3. Within 5 seconds follow the steps below for each transmitter:
   Continue holding the Override switch and Press Transmitter Button 1 for remote arming with chirp confirmation.

   --- or ---

   Release the Override switch and Press Transmitter Button 1 for remote arming without chirp confirmation.
   - The status LED will flash once quickly to confirm that the new Remote Transmitter has been added.

4. Turn off the ignition.
   - The siren will chirp 3 times to confirm that the new Remote Transmitters have been added.

Deleting Transmitters (Adding a Remote Transmitter and Erasing All Other Transmitters From the System)

Code all memory locations to delete any lost transmitters. Example: if two transmitters are used, after coding the first transmitter, code the second transmitter three times to fill up the remaining memory locations.

Programming

Entering System Programming

To enter System Programming:

1. Turn on ignition.
2. Within 5 seconds, press the valet switch 5 times.
   - The siren will emit a buzzing sound, indicating that you have entered Programming.
3. Press the valet switch the number times equal to the System Parameter you want to change.
   - The siren will chirp each time the valet switch is pressed.
4. Within 5 seconds, press the transmitter button corresponding to the desired operating mode for that System Parameter.
   - The siren will chirp to indicate the setting.

   1 chirp = Button 1
   2 chirps = Button 2
   3 chirps = Button 3
5. When you are finished, turn the ignition key off to save the changes. You can turn the key off at any time during programming and the changes that were made will be saved.

System Initialization and Default Reset

Following this procedure will set all System Programming Parameters to factory default settings.

1. Enter System Programming.
2. Press Transmitter Button 3.
   - The siren will chirp 6 times indicating that the reset signal was received.
   - All System Programming parameters are now set to factory default settings.
   - The Arming Mode is set to Remote Arming only.
   - The Valet Mode is off.
   - The Disarm Code is 1.
3. Turn ignition off.

Programmable System Parameters

Feature	Button 1 (default)	Button 2	Button 3
1. Ignition Controlled Door Locking	On	Off	
2. Ignition Controlled Door Unlocking	On	Off	
3. Door Unlock Pulse	Single	Double	
4. Door Lock Pulse Width	1 second	4 seconds	
5. Passive Locking	Off	On	
6. Door Entry Delay with Passive Arming	Off	On	
7. Ignore Dome Light Delay	Off	Ignore	
8. Auto Rearm	Off	On	
9. Horn Honk / Arming Output	Continuous	Flashing	
10. Trunk Disarm Feature	Off	On	
11. Siren / Horn Chirps	Siren only	Horn chirps	

1. **Ignition Controlled Door Locking.** Selects whether or not the system automatically locks the doors when the ignition is turned on. When selected, the Ignition Controlled Door Locking feature will automatically lock the doors 10 seconds after the ignition key is turned on.

   To prevent the keys from being locked inside the vehicle when Ignition Controlled Door Locking is on:
   - The system will not lock the doors if any door is open when the ignition is turned on.
   - The system will not lock the doors if any door is opened during the 10 second countdown.

2. **Ignition Controlled Door Unlocking.** Selects whether or not the system automatically unlocks the doors when the ignition is turned off. When selected, the Ignition Controlled Door Unlocking feature will automatically unlock the doors when the ignition key is turned off.

3. **Door Unlock Pulse - Single/Double.** Selects between a *single* pulse or a *double* pulse door unlock output.
   On many late model Nissan vehicles, as well as some European makes, the factory door locking system requires two pulses

on the proper wire to unlock the vehicle's doors. By programming the system for double pulse door unlocking, these systems can be interfaced directly without the use of relays or any additional circuitry.

4. **Door Lock Pulse Width.** Selects between a 1-second and a 4-second output for door locking and unlocking. Set to 4 seconds when interfacing into vehicles equipped with vacuum door locking systems.

5. **Passive Locking.** Selects whether or not the system will automatically lock the doors with Auto Rearm and Passive Arming.

6. **Door Entry Delay with Passive Arming.** When selected, the door input trigger will be delayed for 15 seconds, allowing access to the emergency override switch. Only delays when the system is armed passively.

7. **Ignore Dome Light Delay.** For use with vehicles equipped with a timed dome light circuit that stays on after the door has been closed. When programmed ON, the open zone indication function will ignore the door zone.

8. **Auto Rearm.** When selected, the system will automatically rearm if no other activity is detected within one minute of Remote Disarming.
   One minute after Remote Disarming, the system will alert you with a 10 second series of chirps, then arm. (If the Passive Door Locking feature is selected during the installation, the system will also relock the doors.)

   Any of the following will cancel Automatic System Rearming:
   - Turn on the ignition.
   - Activate the Auxiliary Function.
   - Open the Trunk or Hood.

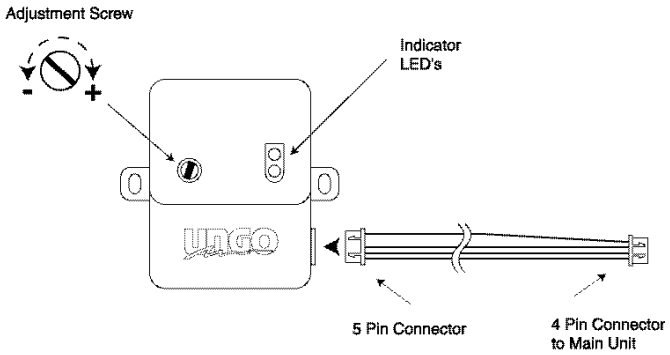
   Automatic System Rearming is independent of Passive Arming and only takes place if the system was Armed (actively or passively) for at least 15 seconds and then Disarmed by the Remote Transmitter.

9. **Horn Honk / Arming Output.** Selects between pulsed or constant output for the Brown/White wire.

10. **Trunk Disarm Feature.** When selected, this feature will automatically disarm the alarm when the auxiliary 1 function (trunk) is activated.

11. **Siren / Horn Chirps.** When set for Horn Chirps, the horn will honk when arming and disarming allowing the siren to NOT be installed.

Shock sensor



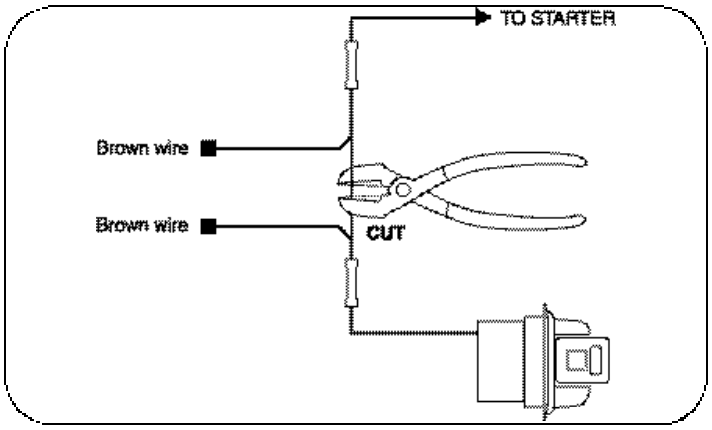
Sensor Test Mode
This mode will allow you to actively test the shock sensor and make adjustments without the alarm being armed. Be sure that the sensor is securely mounted to the vehicle before entering the Sensor Test mode.

To enter Sensor Test mode:

1. Turn the ignition on.
2. Within 4 seconds, press Button 1.
   - The siren will chirp 4 times, indicating that the sensor is ready to be tested.
3. Test the sensitivity. The siren will respond with a short chirp each time an impact is detected.
   - The green led on the sensor will turn on when a light (warn away) impact is detected.
   - The red led on the sensor will turn on when a heavy (trigger) impact is detected.
4. To make adjustments:
   - Turn the adjustment screw on the sensor clockwise to increase the sensitivity.
   - Turn the adjustment screw on the sensor counter clockwise to decrease the sensitivity.
5. When you are satisfied with the sensitivity, turn off the ignition.

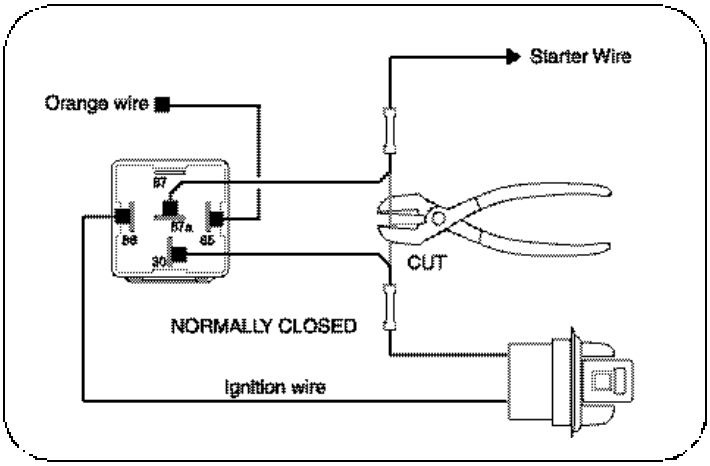
Starter Defeat / Optional Circuit Defeat

The on-board starter defeat relay is designed for normally closed operation only. Connect the brown wires as shown.



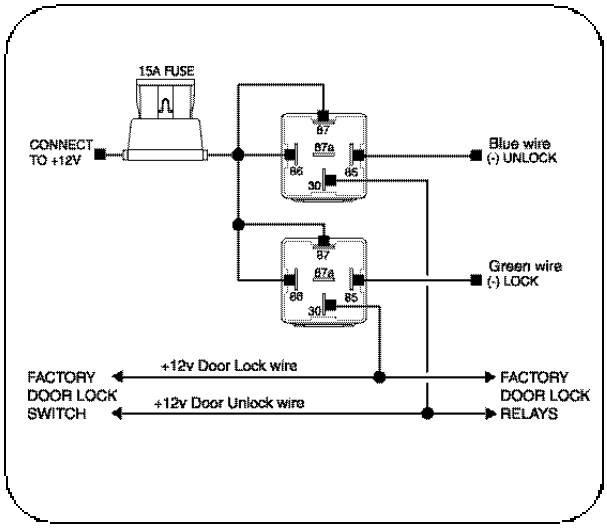
Starter Defeat

The optional circuit defeat output is programmable for normally closed or normally open operation. Connect the circuit to be interrupted as shown, then program the orange wire to the desired operating mode.

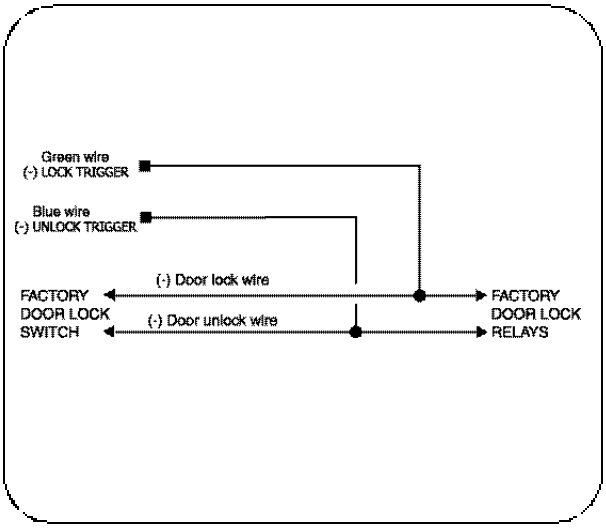


Optional Circuit Defeat

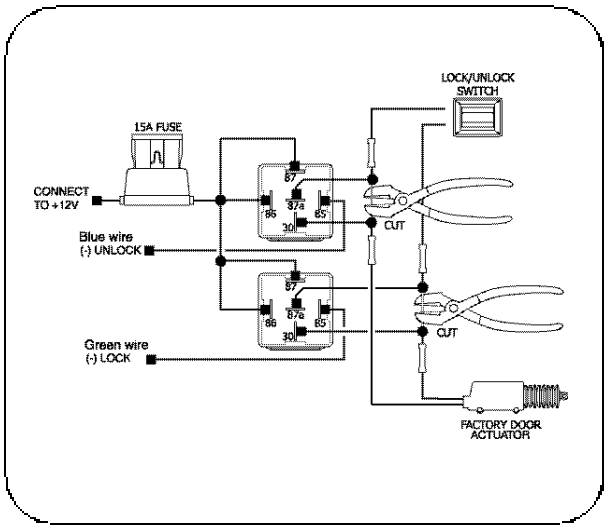
Door Lock Wiring Diagrams



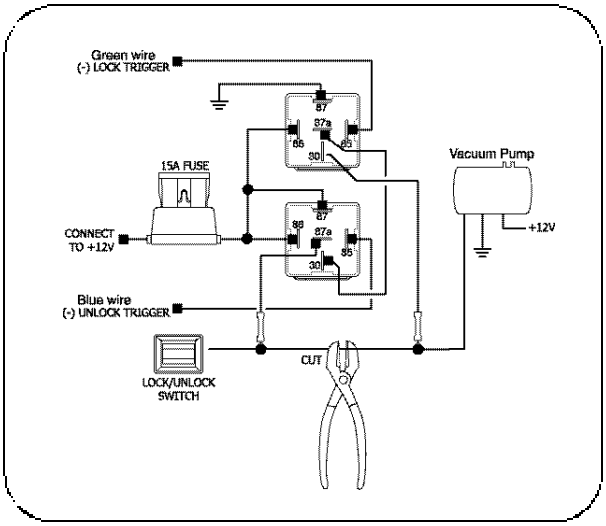
Positive Pulse Door Lock System



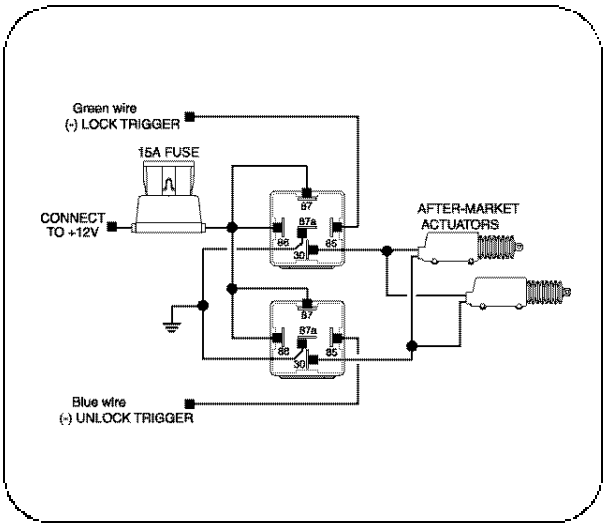
Negative Pulse Door Lock System



Reverse Polarity Door Lock System

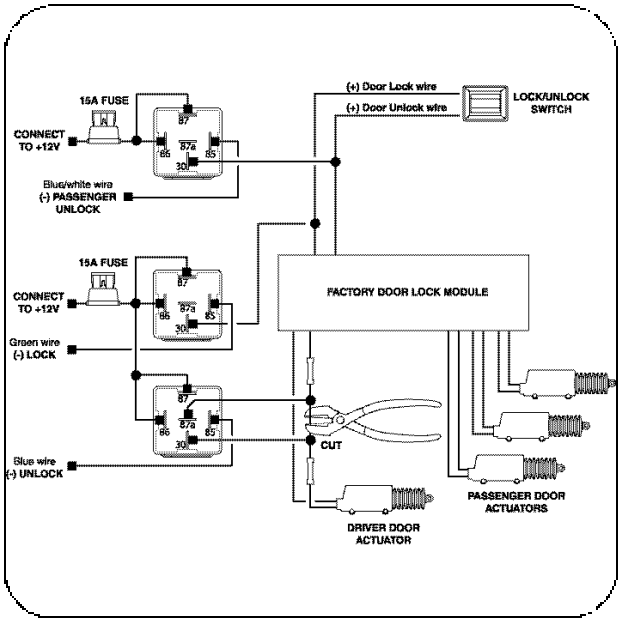


Vacuum Pump Systems

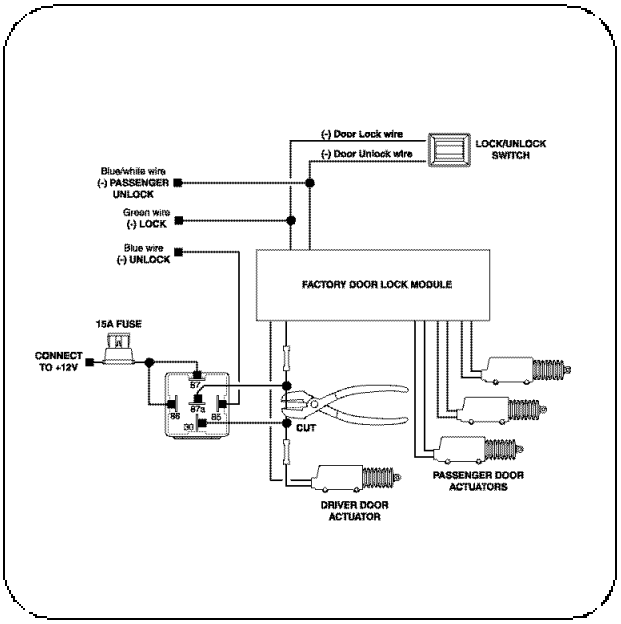


Actuator Diagram

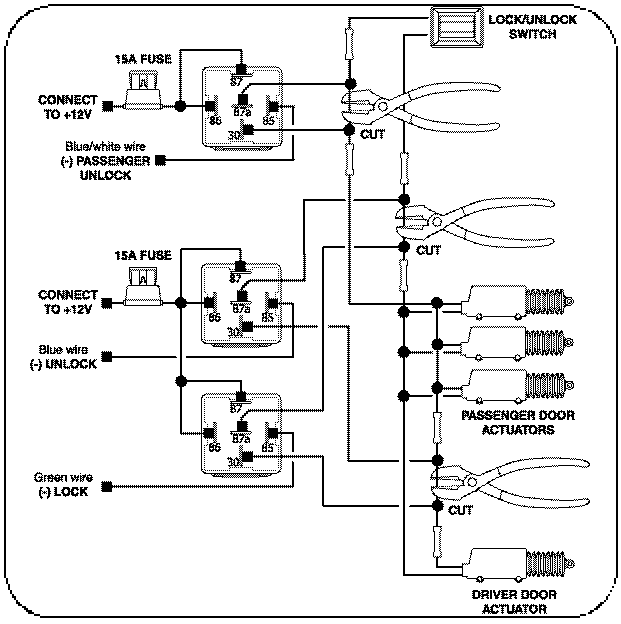
Driver Door Priority Wiring Diagrams



Positive Pulse Door Lock System with Driver Door Priority

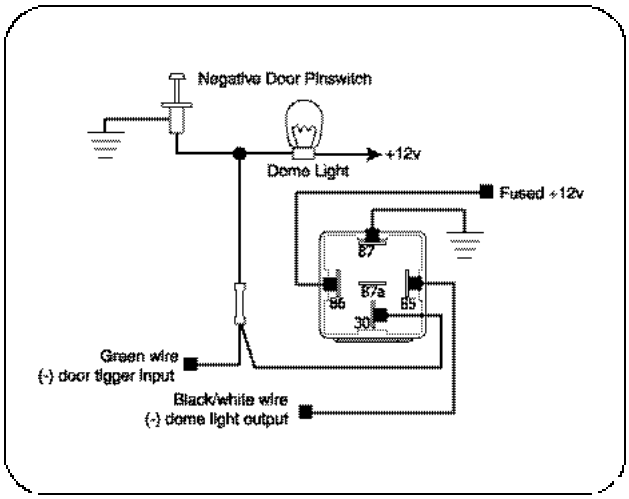


Negative Pulse Door Lock System with Driver Door Priority

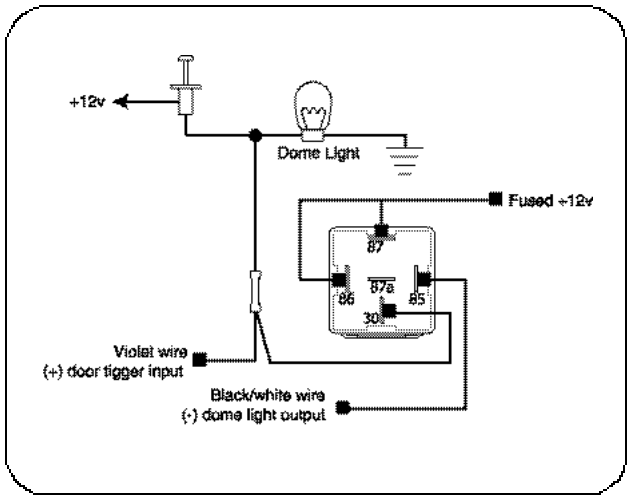


Reverse Polarity Door Lock System with Driver Door Priority

Dome Light



Negative Dome Light



Positive Dome Light

Tech Tips

Remote Audio System Activation (Latched Operating Mode)

This enables the user to listen to the vehicle's audio or video system for extended periods without need of the vehicle's ignition key.

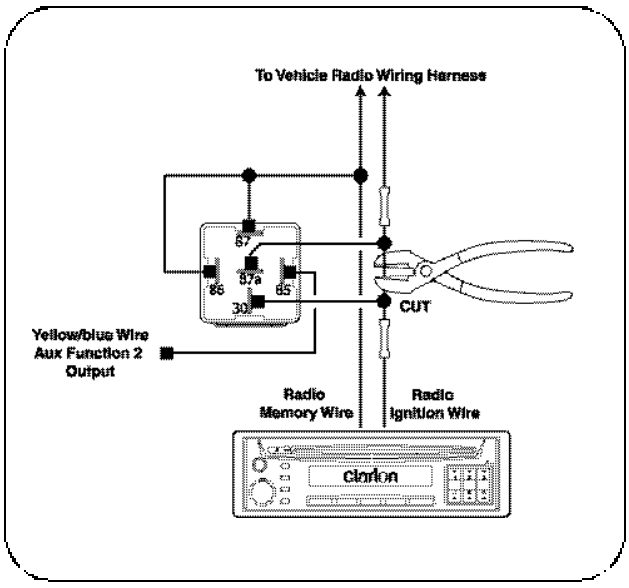
When the Aux 2 function is pressed, the radio will turn on until either the Aux 2 function is pressed again, or the user arms the alarm. In this manner, the user cannot forget to turn off the radio and drain the vehicle's battery.

Normal operation of the audio system using the ignition key is unaffected.

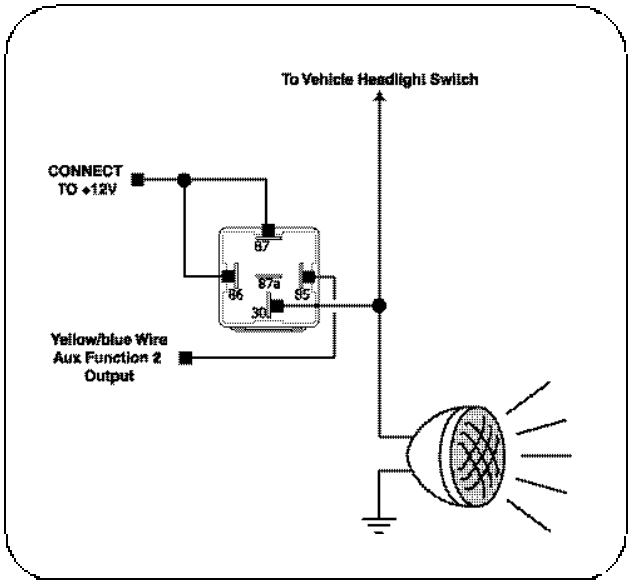
Remote Headlight Activation (Timed Operating Mode)

This enables the user to conveniently light the path to their door for nighttime safety.

When the Aux 2 function is pressed, the vehicle's headlights will turn on for 30 seconds, then turn off.



Remote Audio System Activation



Remote Headlight Activation

Reference Chart

You can use this chart to quickly identify and interpret the system's chirp indications and LED flashes.

Output	When	Status
1 chirp	arming	normal arming
1 + 4 chirps	arming	door, hood, or trunk is open
No chirps	arming	Valet Mode is on
LED double flashes	Valet Mode	Starter Defeat Activated
2 chirps	disarming	normal disarming
3 chirps	disarming	Tamper Alert - system was triggered
1 LED flash	after Tamper Alert	door
2 LED flashes	after Tamper Alert	shock sensor
3 LED flashes	after Tamper Alert	hood or trunk
4 LED flashes	after Tamper Alert	optional sensor
5 chirps	while Armed	Warn Away
Continuous chirps	while Armed & Door Open	System Triggered (Passive Arming Entry Delay Warning)
4 chirps	with ignition key on	Sensor Test mode on
1 chirp	in Sensor Test mode	impact detected
Multiple chirps (for 10 seconds)	1 minute after disarming	Automatic Rearming
LED flashing quickly	ignition key off	Passive Arming sequence started
Two chirps	ignition key off	Full Time System Diagnostics
1 LED flash	after Full Time Sys. Diag.	door
2 LED flashes	after Full Time Sys. Diag.	shock sensor
3 LED flashes	after Full Time Sys. Diag.	hood or trunk